

Substitute PTO/SB/08A (07-05)

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Substitute for form 1449A/PTO (Modified)			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/543,122	
			Filing Date	January 26, 2004	
			First Named Inventor	SHENOY, Sudha	
			Art Unit	To be assigned	
			Examiner Name	To be assigned	
Sheet	1	of	3	Attorney Docket Number	186563/US/2 (469390-00352)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-3,654,090	04-04-1972	Schuurs	
	A2	US-3,850,752	11-26-1974	Schuurs et al.	
	A3	US-4,016,043	04-05-1977	Schuurs et al.	
	A4	US-4,341,761	07-27-1982	Ganfield et al.	
	A5	US-4,399,121	08-16-1983	Albarella et al.	
	A6	US-4,427,783	01-24-1984	Newman et al.	
	A7	US-4,444,887	04-24-1984	Hoffmann	
	A8	US-4,451,570	05-29-1984	Royston et al.	
	A9	US-4,466,917	08-02-1984	Nussenzweig et al.	
	A10	US-4,472,500	09-18-1984	Milstein et al.	
	A11	US-4,491,632	01-01-1985	Wands et al.	
	A12	US-4,493,795	01-15-1985	Nestor et al.	
	A13	US-4,493,890	01-15-1985	Morris	
	A14	US-5,625,048	04-29-1997	Tsien et al.	
	A15	US-5,777,079	07-07-1998	Tsien et al.	
	A16	US-5,891,646	04-06-1999	Barak et al.	
	A17	US-6,066,476	05-23-1990	Tsien et al.	
	A18	US-6,110,693	08-29-2000	Barak et al.	
	A19	US-RE 31,006	08-03-1982	Schuurs et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code* Number* Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1				

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	C1	ANGERS, S. et al., "Detection β_2 -adrenergic receptor dimerization in living cells using bioluminescence resonance energy transfer (BRET)," <i>Proc. Natl. Acad. Sci. USA</i> 97(7):3684-3689 (Mar. 2000).			

Examiner Signature	/Zachary Howard/	Date Considered	04/23/2008
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	C2	CLAING, A., et al., "β-Arrestin-mediated ADP-ribosylation factor 6 activation and β ₂ -adrenergic receptor endocytosis," <i>J. Biol. Chem.</i> 278(45):42509-42513 (Nov. 2001) (first pub'd online 08/30/2001).			
	C3	CONG, M., et al., "Binding of the β ₂ adrenergic receptor to N-ethylmaleimide-sensitive factor regulates receptor recycling," <i>J. Biol. Chem.</i> 276(48):45145-45152 (Nov. 2001) (first pub'd online 09/27/2001).			
	C4	EDGE, M., et al., "Total synthesis of a human leukocyte interferon gene," <i>Nature</i> 292(5825):756-762 (Aug. 1981).			
	C5	GOVERS, R., et al., "Identification of a novel ubiquitin conjugation motif, required for ligand-induced internalization of the growth hormone receptor," <i>EMBO J.</i> 18(1):28-36 (Jan. 1999).			
	C6	HERSHKO, A., et al., "The ubiquitin system," <i>Annu. Rev. Biochem.</i> 67:425-479 (1998).			
	C7	HICKE, L., et al., "Ubiquitination of a yeast plasma membrane receptor signals its ligand-stimulated endocytosis," <i>Cell</i> 84(2):277-287 (Jan. 1995).			
	C8	JAY, E., et al., "Chemical synthesis of a biologically active gene for human immune interferon-γ. Prospect for site-specific mutagenesis and structure-function studies," <i>J. Biol. Chem.</i> 258(10):6311-6317 (May 1984).			
	C9	KRUPNICK, J., et al., "Arrestin/clathrin interaction. Localization of the clathrin binding domain of nonvisual arrestins to the carboxy terminus," <i>J. Biol. Chem.</i> 272(23):15011-15016 (Jun. 1997).			
	C10	LAPORTE, S., et al., "The β ₂ -adrenergic receptor/β-arrestin complex recruits the clathrin adaptor AP-2 during endocytosis," <i>Proc. Natl. Acad. Sci. USA</i> 96(7):3712-3717 (Mar. 1999).			
	C11	LEFKOVITZ, R., "G protein-coupled receptors. III. New roles for receptor kinases and β-arrestins in receptor signaling and desensitization," <i>J. Biol. Chem.</i> 273(30):18677-18680 (Jul. 1998).			
	C12	LUTTRELL, L., et al., "β-arrestin-dependent formation of β ₂ adrenergic receptor-Src protein kinase complexes," <i>Science</i> 283(5402):655-661 (Jan. 1999).			
	C13	LUTTRELL, L., et al., "Activation and targeting of extracellular signal-regulated kinases by β-arrestin scaffolds," <i>Proc. Natl. Acad. Sci. USA</i> 98(5):2449-2454 (Feb. 2001) (first pub'd online 02/20/2001).			
	C14	MORI, S., et al., "Identification of a ubiquitin-ligation system for the epidermal-growth-factor receptor-herbimycin A induces <i>in vitro</i> ubiquitination in rabbit-reticulocyte lysate," <i>Eur. J. Biochem.</i> 247(3):1190-1196 (Aug. 1997).			
	C15	MORI, S., et al., "Degradation process of ligand-stimulated platelet-derived growth factor β-receptor involves ubiquitin-proteasome proteolytic pathway," <i>J. Biol. Chem.</i> 270(49):29447-29452 (Dec. 1995).			
	C16	NAMBIAR, K., et al., "Total synthesis and cloning of a gene coding for the ribonuclease S protein," <i>Science</i> 223(4642):1299 (Mar. 1984).			
	C17	NIMAN, H., et al., "Generation of protein-reactive antibodies by short peptides is an event of high frequency: implications for the structural basis of immune recognition," <i>Proc. Natl. Acad. Sci. USA</i> 80(16):4949-4953 (Aug. 1983).			
	C18	NOREN, C., et al., "A general method for site-specific incorporation of unnatural amino acids into proteins," <i>Science</i> 244(4901):182-188 (Apr. 1989).			
	C19	OAKLEY, R., et al., "Differential affinities of visual arrestin, β-arrestin1, and β-arrestin2 for G protein-coupled receptors delineate two major classes of receptors," <i>J. Biol. Chem.</i> 275(22):17201-17210 (Jun. 2000).			

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	C20	OAKLEY, R., et al., "Molecular determinants underlying the formation of stable intracellular G protein-coupled receptor- β -arrestin complexes after receptor endocytosis," <i>J. Biol. Chem.</i> 276(22):19452-19460 (Jun. 2001) (first pub'd online 03/09/2001).	
	C21	PERRY, S., et al., "Arresting developments in heptahelical receptor signaling and regulation," <i>Trends Cell Biol.</i> 12(3):130-138 (Mar. 2002).	
	C22	PHONPHOK, Y., et al., "Stabilization of clathrin coated vesicles by amantadine, tromantadine and other hydrophobic amines," <i>FEBS Lett.</i> 281(1-2):188-190 (Apr. 1991).	
	C23	ROTH, A., et al., "Ubiquitination of the yeast a-factor receptor," <i>J. Cell. Biol.</i> 134(3):661-674 (Aug. 1996).	
	C24	SHENOY, S., et al., "Regulation of receptor fate by ubiquitination of activated beta 2-adrenergic receptor and beta-arrestin," <i>Science</i> 294(5545):1307-1313 (Mar. 2001) (first pub'd online 10/04/2001).	
	C25	TOHGO, A., et al., " β -Arrestin scaffolding of the ERK cascade enhances cytosolic ERK activity but inhibits ERK-mediated transcription following angiotensin AT1a receptor stimulation," <i>J. Biol. Chem.</i> 277(11):9429-9436 (Mar. 2002) (first pub'd online 01/02/2002).	
	C26	WANG, C., et al., "TAK1 is a ubiquitin-dependent kinase of MKK and IKK," <i>Nature</i> 412(6844):346-351 (Jul. 2001).	
	C27	WANG, Y., et al., "Down-regulation of protease-activated receptor-1 is regulated by sorting nexin 1," <i>Mol. Biol. Cell</i> 13(6):1965-1976 (Jun. 2002).	
	C28	ZHENG, B., et al., "RGS-PX1, a GAP for Gq, and sorting nexin in vesicular," <i>Science</i> 294(5548):1939-1942 (Nov. 2001).	

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